STREAM CROSSING SCHEDULE - RED ROAD/CR 510

25-May-2012

All box culverts and Conspans use wing walls as entrance treatment.

Culvert #	Regulated Stream	Station	Page #	Proposed Structure AFP Plans	Centerline Road Elevation	Centerline Drainage Structure Beam/Crown Elevation	Centerline Stream Elevation	Left Culvert Invert Elevation	Right Culvert Invert Elevation	Culvert Bury Depth	Bankfull Width	Upstream Riffle Elev.	Downstream Riffle Elev.	SSM Slope %	Plain Rip Rap Fill (CYD)	Heavy Rip Rap Fill (CYD)	Length of Streambed Reconstruction (Feet)	Natural Streambed Material Fill (CYD)	Existing Structure To Be Removed
	Middle Branch Escanaba	122+75	1	60' Span Bridge	1533.81	1530.89	1526.04	---	---	---	32.2'	---	---	---	---	112.0	---	---	None
	Second River	261+00	6	58' Span Bridge	1563.22	1560.30	1554.03	---	---	---	14.5'	---	---	---	---	152.0	40	53.7	2 - 36" (54' and 53'), 42"x66" Arch (58')
E6	Trembath Lake Outlet	311+91	8	12' Span x 5' Rise x 73' Length Box	1576.31	1571.26	1567.86	1566.44	1566.08	1.6'	9.4'	1568.13	1567.55	0.50	22.7	---	80	18.1	2 - 24" (41')
E12	Unnamed Tributary to Kipple Creek	451+16	12	8' Span x 4' Rise x 66' Length Box	1695.54	1690.86	1687.86	1686.70	1687.15	1.0'	5.6'	1688.03	1687.52	0.49	22.7	---	25	14.8	None
	Porcupine Wetland Outlet	495+78	12	60' Span Bridge	1676.39	1673.47	1650.72	---	---	---	5.1'	---	---	---	---	181.0	---	---	None
D14	Unnamed Tributary to Barnhardt Creek	505+01	14	8' Span x 4' Rise x 80' Length Box	1663.47	1652.60	1649.60	1652.56	1641.42	1.0'	5.8'	1654.80	1639.40	13.9	22.7	---	25	14.8	None
D16	Unnamed Tributary to Barnhardt Creek	530+04	15	4' Span x 3' Rise x 80' Length Box	1679.18	1670.17	1667.47	1670.90	1661.01	0.3'	1.7'	1672.30	1660.10	11.0	19.3	---	25	5.6	None
	Dead River	2002+25	28	None, Use Existing Bridge	1362.14	---	---	---	---	---	---	---	---	---	---	---	---	---	Existing Concrete Bridge to Remain (106' Span x 28.5' Width)
D303	Silver Creek	2102+50	31	6' Span x 4' Rise x 80' Length Box	1371.13	---	---	---	---	---	---	---	---	---	---	---	---	---	70' - 48" CMP
	Clark Creek	2243+80	36	60' Span Bridge	1352.74	---	---	---	---	---	---	---	---	---	---	---	---	---	49' x 17.5' Steel Bridge
	Deer Creek	2282+00	37	None, Use Existing Bridge	1360.40	---	---	---	---	---	---	---	---	---	---	---	---	---	Existing Concrete Bridge to Remain (41' Span x 28.5' Width)
F300	Unnamed Tributary to Big Garlic River	2532+95	45	12' Span x 6' Rise x 239' Length Box	1445.51	Culvert unable to be able to be shortened with extended wingwalls due to ~60' fill						---	---	---	---	---	---	---	110' - 8.5'x6.5' Concrete Dome
	Unnamed Tributary to Big Garlic River	2553+10	46	Remove Existing Culvert	1412.27	---	---	---	---	---	---	---	---	---	---	---	---	---	40' - 36" CMP
	Unnamed Tributary to Big Garlic River	2563+60	46	Remove Existing Culvert	1417.97	---	---	---	---	---	---	---	---	---	---	---	---	---	42' - 36 x 30" CMP
	Unnamed Tributary to Big Garlic River	2563+70	46	Remove Existing Culvert	1418.04	---	---	---	---	---	---	---	---	---	---	---	---	---	40' - 24" CMP
	Unnamed Tributary to Big Garlic River	2572+30	47	Remove Existing Culvert	1423.88	---	---	---	---	---	---	---	---	---	---	---	---	---	28' - 30" CMP
F302	Unnamed Tributary to Big Garlic River	2576+05	47	10' Span x 5' Rise x 70' Length Box	1426.43	---	---	---	---	---	---	---	---	---	---	---	---	---	None
	Unnamed Tributary to Big Garlic River	2586+20	47	Remove Existing Culvert	1433.84	---	---	---	---	---	---	---	---	---	---	---	---	---	40' - 24" CMP
	Big Garlic River	2588+60	47	40' Span Bridge	1435.76	---	---	---	---	---	---	---	---	---	---	---	---	---	21' x 19.5' Steel Bridge
F304	Big Garlic River	2604+90	48	12' Span x 6' Rise x 80' Length Box	1466.28	---	---	---	---	---	---	---	---	---	---	---	---	---	58' - 54" CMP
F305	Unnamed Tributary to Big Garlic River	2610+55	48	6' Span x 4' Rise x 77' Length Box	1470.58	---	---	---	---	---	---	---	---	---	---	---	---	---	40' - 36" CMP
F306	Unnamed Tributary to Big Garlic River	2615+00	48	6' Span x 4' Rise x 77' Length Box	1473.96	---	---	---	---	---	---	---	---	---	---	---	---	---	47' - 30" CMP
F307	Big Garlic River	2619+50	48	10' Span x 5' Rise x 80' Length Box	1477.58	---	---	---	---	---	---	---	---	---	---	---	---	---	40' - 30" CMP
	Big Pup Creek	2720+70	52	40' Span Bridge (46' - 3" Width)	1138.84	---	---	---	---	---	---	---	---	---	---	---	---	---	20' x 19.7' Steel Bridge
F307A	Unnamed Tributary to Big Pup Creek	2725+25	52	4' Span x 3' Rise x 80' Length Box	1129.15	---	---	---	---	---	---	---	---	---	---	---	---	---	100' - 30" CMP
F309	Unnamed Tributary to Big Pup Creek	2782+80	54	4' Span x 3' Rise x 133' Length Box	957.45	Culvert unable to be able to be shortened with extended wingwalls due to ~30' fill						---	---	---	---	---	---	---	55' - 24" CMP
F310	Unnamed Tributary to Big Pup Creek	2791+55	54	5' Span x 3' Rise x 135' Length Box	964.44	Culvert unable to be able to be shortened with extended wingwalls due to ~30' fill						---	---	---	---	---	---	---	65' - 30" CMP
Y300	Unnamed Tributary to Yellow Dog River	2802+25	54	6' Span x 4' Rise x 80' Length Box	959.57	---	---	---	---	---	---	---	---	---	---	---	---	---	48' - 42" CMP
Y301	Unnamed Tributary to Yellow Dog River	2809+25	55	6' Span x 4' Rise x 69' Length Box	940.03	---	---	---	---	---	---	---	---	---	---	---	---	---	Unknown
	Yellow Dog River	2819+50	55	100' Span Bridge	906.52	---	---	---	---	---	---	---	---	---	---	---	---	---	70' x 23' Timber Bridge
Y302	Unnamed Tributary to Lost Creek	2868+30	57	4' Span x 3' Rise x 155' Length Box	950.52	Culvert unable to be able to be shortened with extended wingwalls due to ~40' fill						---	---	---	---	---	---	---	80' - 30" CMP
Y303	Lost Creek	2889+90	57	12' Span x 6' Rise x 160' Length Box	953.98	Culvert unable to be able to be shortened with extended wingwalls due to ~30' fill						---	---	---	---	---	---	---	73' - 8'x8' Concrete Dome
	East Branch Salmon Trout River	311+40	SM6	65' Span Bridge	1192.92	1190.00	1178.00	---	---	---	12.0	---	---	---	---	125.0	90	53.3	3 - 36-48" Culverts (40' Each)
F7	Unnamed Stream	405+00	74	8' Span x 4' Rise x 68' Length Box	1089.00	---	---	---	---	---	---	---	---	---	---	---	50	---	Unknown

TOTAL LENGTH OF PROPOSED CULVERTS AND WIDTHS OF BRIDGES = 2225 FEET **TOTAL LENGTH OF EXISTING CULVERTS AND WIDTHS OF BRIDGES = 1327 FEET**